

## CONTENTS

|   |    |
|---|----|
| TASK 210 REPORT .....   | 1  |
| Introduction.....   | 1  |
| Regional Wastewater Service Area .....  | 5  |
| 1958 Plan .....   | 5  |
| Current King County Service Basins.....   | 6  |
| Unincorporated King County.....   | 6  |
| Urban Growth Area.....  | 6  |
| Local Wastewater Service Areas .....  | 19 |
| City of Tukwila.....  | 19 |
| Service Area.....   | 19 |
| Basins.....   | 19 |
| Val Vue Sewer District.....   | 19 |
| Service Area.....   | 20 |
| Basins.....   | 20 |
| City of Renton.....   | 20 |
| Service Area.....   | 25 |
| Basins.....   | 25 |
| City of Kent .....  | 25 |
| Service Area.....   | 25 |
| Basins.....   | 26 |
| Soos Creek Water and Sewer District.....  | 26 |
| Service Area.....   | 26 |
| Basins.....   | 26 |
| Planning Record.....  | 31 |
| 1958 Metropolitan Seattle Sewerage and Drainage Survey .....  | 31 |
| Comprehensive Sewage Disposal Plan, Green River Sewerage Area and Portion of<br>White River Watershed ..... | 32 |
| Codification of Metro's Comprehensive Sewerage Plan.....  | 33 |
| Washington Growth Management Act .....  | 33 |
| King County Comprehensive Plan, Executive Proposed Plan .....   | 34 |
| King County Regional Wastewater Services Plan.....  | 34 |
| King County RWSP—Wastewater 2020 Plus, Existing Conditions .....  | 35 |
| King County RWSP—Wastewater 2020 Plus, South Interceptor Parallel Validation<br>Study .....                 | 35 |
| Val Vue Sewer District 2000 Comprehensive Sewer Plan.....   | 35 |
| City of Tukwila Comprehensive Sewer Plan.....   | 36 |
| City of Kent 2000 Comprehensive Sewer Plan .....  | 36 |
| City of Kent Comprehensive Sewerage Plan.....   | 36 |
| 1996 Soos Creek Water and Sewer District Comprehensive Sewer Plan .....                                     | 36 |

|  |    |
|--|----|
| City of Renton Long-Range Wastewater Management Plan, A Comprehensive Sewer System Plan – 1998 ..... | 37 |
| City of Renton Infiltration/Inflow Program.....  | 37 |
| TASK 220 REPORT .....  | 41 |
| Introduction.....  | 41 |
| Regional Facilities .....  | 43 |
| Wastewater Treatment Facilities .....  | 43 |
| Conveyance Facilities .....  | 43 |
| Pump Stations .....  | 43 |
| Comparison to 1958 Plan.....   | 43 |
| Issues and Problems .....  | 46 |
| Local Facilities.....  | 47 |
| Tukwila .....  | 47 |
| Conveyance Facilities .....  | 47 |
| Pump Stations .....  | 47 |
| Known Rehabilitation Requirements .....  | 47 |
| Planned System Changes .....   | 47 |
| Operation and Maintenance .....  | 48 |
| Comparison to 1958 Plan.....   | 48 |
| Val Vue Sewer District.....  | 48 |
| Conveyance Facilities .....  | 48 |
| Pump Stations .....  | 49 |
| Known Rehabilitation Requirements .....  | 49 |
| Planned System Changes .....   | 49 |
| Operation and Maintenance .....  | 50 |
| Comparison to 1958 Plan.....   | 50 |
| Renton.....  | 50 |
| Conveyance Facilities .....  | 50 |
| Pump Stations .....  | 51 |
| Known Rehabilitation Requirements .....  | 51 |
| Planned System Changes .....   | 51 |
| Comparison to 1958 Plan.....   | 51 |
| Kent.....  | 51 |
| Conveyance Facilities .....  | 52 |
| Pump Stations .....  | 52 |
| Known Rehabilitation Requirements .....  | 52 |
| Planned System Changes .....   | 52 |
| Operation and Maintenance .....  | 53 |
| Comparison to 1958 Plan.....   | 53 |
| Soos Creek Water and Sewer District.....   | 53 |
| Conveyance Facilities .....  | 54 |
| Pump Stations .....  | 54 |

|   |           |
|---|-----------|
| Known Rehabilitation Requirements .....                       | 55        |
| Planned System Changes .....                                  | 55        |
| Operation and Maintenance .....                               | 55        |
| Comparison to 1958 Plan.....                                  | 56        |
| <b>TASK 230 REPORT .....</b>                                  | <b>59</b> |
| Introduction.....   | 59        |
| Natural Environment.....                                      | 61        |
| Geological Features .....                                     | 61        |
| Topography and Soils .....                                    | 61        |
| Erosion Hazards .....   | 62        |
| Landslide Hazards.....  | 62        |
| Seismic Hazards.....  | 67        |
| Water Features .....  | 67        |
| Shoreline and Sensitive Area Regulation of Water Bodies ..... | 67        |
| Drainage Basins and Streams.....                              | 68        |
| Lakes .....   | 68        |
| Wetlands .....  | 73        |
| Flood Hazard Areas .....                                      | 73        |
| Fish and Wildlife .....                                       | 73        |
| Vegetation.....   | 74        |
| Land Use and Growth .....                                     | 77        |
| <b>REFERENCES AND INFORMATION SOURCES .....</b>               | <b>85</b> |

## **TABLES**

|              |   |    |
|--------------|---|----|
| Table 220-1. | Pump Stations Significant to Regional Sewer Service in Green River North SPA.....   | 44 |
| Table 230-1. | Current and Projected Household, Population, and Employment Growth by Forecast Analysis Zone in the Green River North Subregional Planning Area. .... | 78 |

## **FIGURES**

|                |  |    |
|----------------|--|----|
| Figure 210-1.  | King County Facilities and Vicinity Map.....   | 3  |
| Figure 210-2.  | Cities .....   | 7  |
| Figure 210-3.  | Local Sewer Agencies .....   | 9  |
| Figure 210-4.  | Comparison of City and Sewer Agency Boundaries .....                                 | 11 |
| Figure 210-5   | 1958 Plan: Green River Sewerage Area, Local Service Areas, and Service Sewers.....   | 13 |
| Figure 210-6   | King County Sewer Basins .....   | 15 |
| Figure 210-7   | Comparison of 1958 Plan with Current King County Sewer Basins and Interceptors ..... | 17 |
| Figure 210-8   | Local Facilities: Tukwila and Val Vue Sewer District.....                            | 21 |
| Figure 210-9   | Local Facilities: Renton .....   | 23 |
| Figure 210-10. | Local Facilities: Kent.....  | 27 |
| Figure 210-11. | Local Facilities: Soos Creek Water and Sewer District.....                           | 29 |
| Figure 230-1.  | Sensitive Areas .....  | 63 |
| Figure 230-2.  | Geology and Soils.....   | 65 |
| Figure 230-3.  | Surface Water and Wetlands.....  | 69 |
| Figure 230-4.  | Drainage Basins .....  | 71 |
| Figure 230-5.  | 1995 Land Use Plan.....  | 79 |
| Figure 230-6.  | Forecast Analysis Zones .....  | 81 |